

REMARKS

Prior to entry of this paper, Claims 1-20 were pending. Claim 1-3 were rejected, and Claims 10-20 were allowed. Claim 4-9 were identified as being allowable if re-written in independent form. In this paper, Claim 1, 4, 5, and 7 are amended, and new Claims 21 and 22 are added. Claims 1-22 are current pending. No new matter has been added. Claims 4 and 5 have been re-written independent form. Claim 7 has been amended to correct for informalities that would otherwise exist based on the amendment to Claim 1. For at least the following reasons, Applicants respectfully submit that each of the presently pending claims is in condition for allowance.

Allowable Subject Matter (Claims 4-6 and 10-20)

Claims 10-20 were allowed.

Claims 4-9 were identified as being allowable re-written independent form. Claims 4 and 5 have been re-written in independent form. Claim 6 depends on Claim 5. For at least these reasons, it is respectfully submitted that Claims 4-6 are in condition for allowance.

Claims 1-3 and 7-9

Claim 1 is respectfully submitted to be allowable at least because Shields et al. (U.S. Patent No. 4,781,437) does not disclose, "the first sampling switch circuit is configured to be closed during a sample phase for the first sample-and-hold channel, and wherein the first hold switch circuit is configured to be open during the sample phase for the first sample-and-hold channel", as recited in Applicants' Claim 1 as amended.

Claims 2-3 and 7-9 are respectfully submitted to be allowable at least because they depend on Claim 1.

New Claims 21 and 22

Claim 21 is respectfully submitted to be allowable at least because Shields does not disclose, "a sample-and-hold circuit that is interleaved by at least two such that a speed of the sample-and-hold circuit is approximately at least doubled without substantially increasing the processing time allowed for the processing circuit", as recited in Applicants' Claim 21.

Claim 22 is respectfully submitted to be allowable at least because Shields does not disclose “a boost circuit”, as recited in Applicants’ Claim 22.

Conclusion

It is respectfully submitted that each of the presently pending claims (Claims 1-22) are in condition for allowance and notification to that effect is requested. The Examiner is invited to contact Applicants' representative at the below-listed telephone number if it is believed that prosecution of this application may be assisted thereby. Although certain arguments regarding patentability are set forth herein, there may be other arguments and reasons why the claimed invention is patentably distinct. Applicants reserve the right to raise these arguments in the future.

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Respectfully submitted,

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